

**BT-5/D09****MULTIMEDIA AND VIRTUAL REALITY (2005-06)****Paper : IT-359**

Time : Three Hours]

[Maximum Marks : 100

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit.

**UNIT-I**

1. (a) Explain the various video compression and decompression techniques. 10  
(b) Describe the framework for multimedia system. 10
2. (a) Describe the role of multimedia in various applications. 10  
(b) Write short notes on the following :  
(i) DVI technology.  
(ii) MPEG standard. 10

**UNIT-II**

3. (a) What are the barriers to widespread use of authoring & presentation system ? 10  
(b) Explain Multimedia service architecture in detail. 10
4. (a) Explain the various data models for multimedia and hypermedia information. 12  
(b) What do you mean by Media stream protocol ? 8

### UNIT-III

5. (a) Describe the architecture for network based multimedia services. 7  
(b) Differentiate Media services & Session services, and give their types. 7  
(c) Write short note on Teleconferencing system. 6
6. (a) Explain the significance of multimedia interchange format and issue arises in their designing. 10  
(b) Write a note on Animation and its application in the field of multimedia. 10

### UNIT-IV

7. Write short notes on the following :  
(i) Intelligent multimedia system design. 10  
(ii) Intelligent virtual reality software system. 10
8. What is Virtual reality ? Describe virtual reality operating system and its application. 20
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